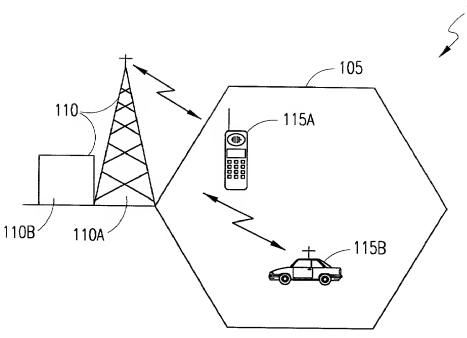
100
105
110
115A
110B
110A
115B

FIG. 1

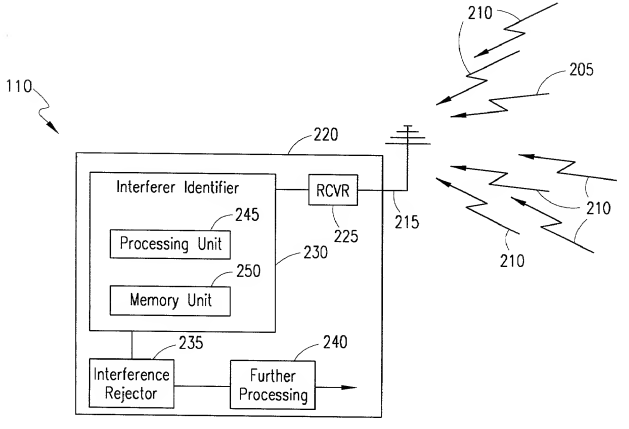
210
205
110
220
Interferer Identifier
RCVR
245
225
215
Processing Unit
230
250
Memory Unit
210
210
235
240
Interference Rejector
Further Processing

FIG. 2

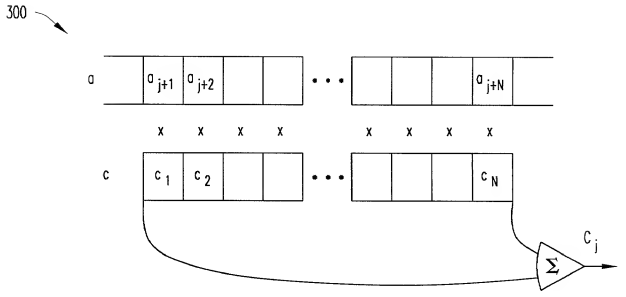

FIG. 3A

Training Sequences

320

index i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Seq. #																										
1	1	1	1	−1	1	1	1	1	−1	−1	−1	1	−1	−1	1	−1	1	1	1	−1	1	1	1	1	−1	−1
2	1	−1	1	−1	−1	1	1	1	1	1	−1	1	1	−1	−1	−1	1	−1	1	−1	−1	1	1	1	1	1
3	−1	1	−1	−1	1	1	1	−1	1	−1	1	1	−1	−1	−1	−1	−1	1	−1	−1	1	1	1	−1	1	−1
4	−1	−1	−1	1	1	−1	1	−1	1	1	1	−1	−1	1	−1	−1	−1	−1	−1	1	1	−1	1	−1	1	1
5	−1	1	−1	−1	−1	1	1	1	1	−1	1	1	−1	1	−1	−1	−1	1	−1	−1	−1	1	1	1	1	−1
6	−1	1	−1	−1	−1	−1	1	1	1	−1	1	1	1	−1	1	−1	−1	1	−1	−1	−1	−1	1	1	1	−1
7	−1	−1	1	−1	1	1	−1	1	1	1	−1	1	1	1	1	−1	−1	−1	1	−1	1	1	−1	1	1	1
8	−1	−1	1	−1	−1	1	−1	1	1	1	−1	−1	−1	−1	1	−1	−1	−1	1	−1	−1	1	−1	1	1	1

FIG. 3B

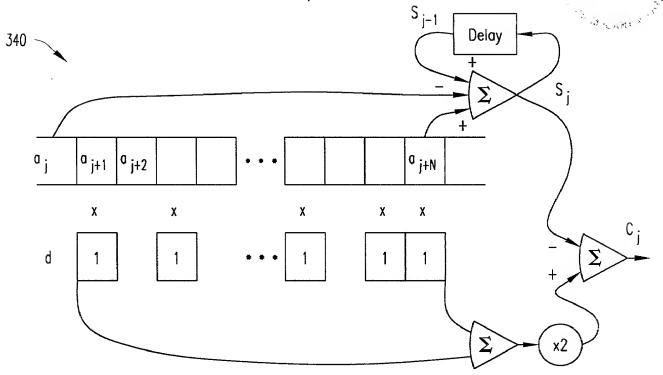
340
S j-1
Delay
S j
a j
a j+1
a j+2
a j+N
x
d
1
C j
x2

FIG. 3C

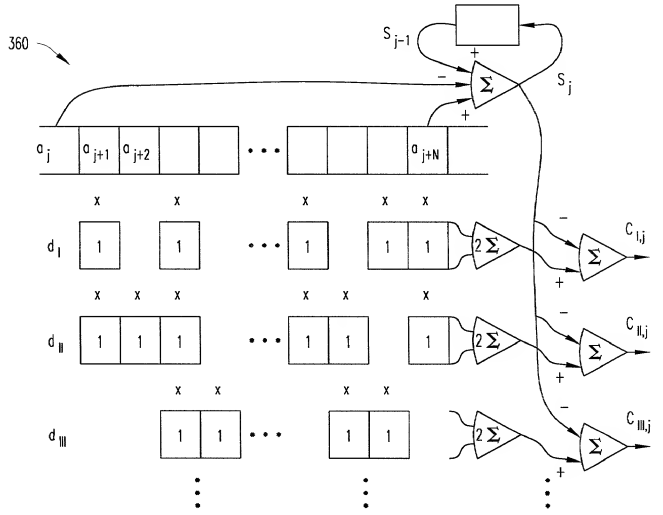
360
S j-1
S j
a j
a j+1
a j+2
a j+N
d I
d II
d III
1
2 Σ
C I,j
C II,j
C III,j

FIG. 3D

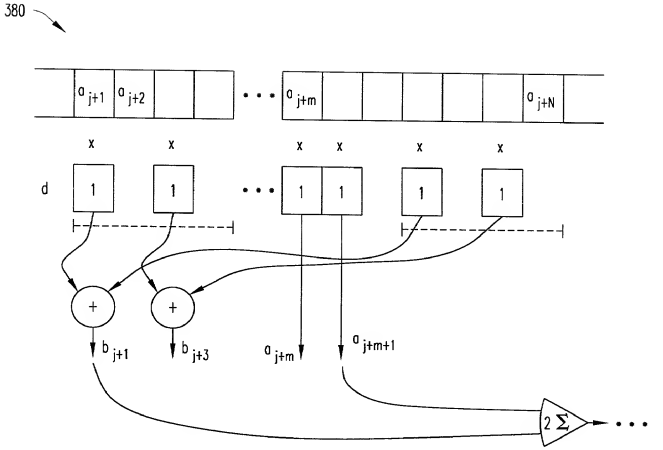

FIG. 3E

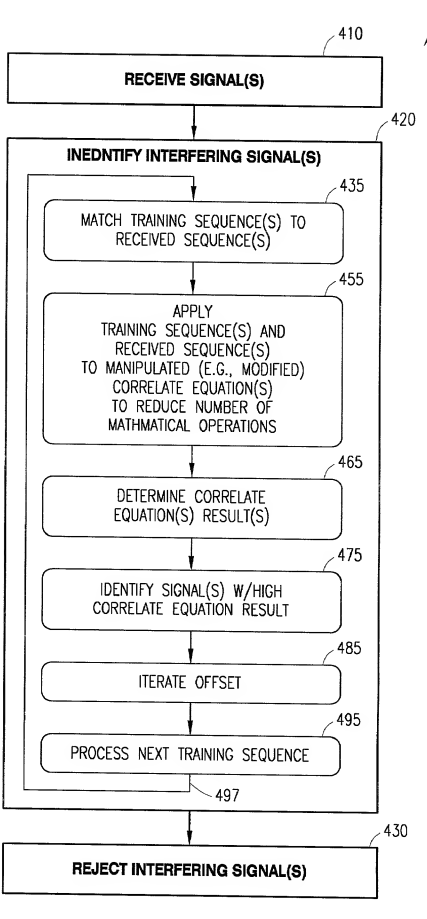
400
410
RECEIVE SIGNAL(S)
420
INEDNTIFY INTERFERING SIGNAL(S)
435
MATCH TRAINING SEQUENCE(S) TO RECEIVED SEQUENCE(S)
455
APPLY TRAINING SEQUENCE(S) AND RECEIVED SEQUENCE(S) TO MANIPULATED (E.G., MODIFIED) CORRELATE EQUATION(S) TO REDUCE NUMBER OF MATHMATICAL OPERATIONS
465
DETERMINE CORRELATE EQUATION(S) RESULT(S)
475
IDENTIFY SIGNAL(S) W/HIGH CORRELATE EQUATION RESULT
485
ITERATE OFFSET
495
PROCESS NEXT TRAINING SEQUENCE
497
430
REJECT INTERFERING SIGNAL(S)

FIG. 4

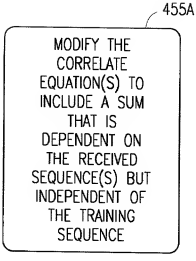

FIG. 4A

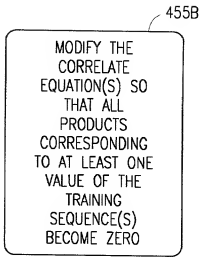

FIG. 4B

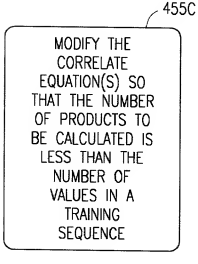

FIG. 4C

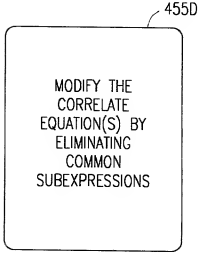

FIG. 4D

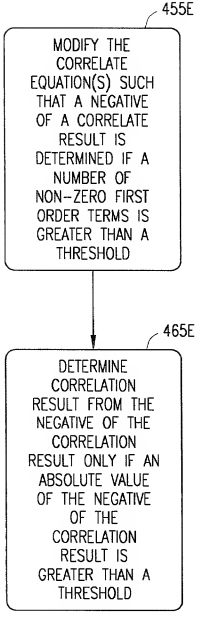

FIG. 4E

		505	510	515
505a	a_{16}		00000000000000010000000000	00000000
	a_{15}		00000000000001000000000000	10000111
	a_{14}		00000000000010000000000000	00011010
	a_{13}		00000000000100000000000000	01000110
	a_{12}		00000000001000000000000000	11101110
	a_{11}		00000000010000000000000000	00111100
505b	b_{10}		00000000100000000000000001	01010011
	b_9		00000001000000000000000010	01111111
	b_8		00000010000000000000000100	11001111
	b_7		00000100000000000000001000	11111100
	b_6		00001000000000000000010000	11101011
	b_5		00010000000000000000100000	10110010
	b_4		00100000000000000001000000	00010000
	b_3		01000000000000000010000000	11000011
	b_2		10000000000000000100000000	10101100
	b_1		00000000000000001000000000	11000000

FIG. 5